



AN: PAT 1999-119150
TI: Electromagnetic actuator drive for e.g. records using pre-magnetised material moving in air gap of lower coercivity electromagnets
PN: NL1006087-C2
PD: 23.11.1998
AB: A plate (44) is pre-magnetised transversely (small arrows), and depending on the direction of current in the coils (46, 50) of the electromagnets (40, 42), the plate is attracted or repelled towards one or other of the end stops (54, 56). Conversely, a disc (80) rotates around a spindle (82) with its periphery of the air gaps of e.g. six yokes (84a, 84d, 84f). The rim of the disc is pre-magnetised as before but with circumferential sections of alternate polarity. A linear array is also possible using a strip of pre-magnetised material, with sections of alternate polarity, between a series of magnetic pole pieces.; USE - Actuator drive mechanism for e.g. a record, disc or tape. ADVANTAGE - Overcomes the problems of slippage or damage that can arise with friction drives.
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